

FIG. 1

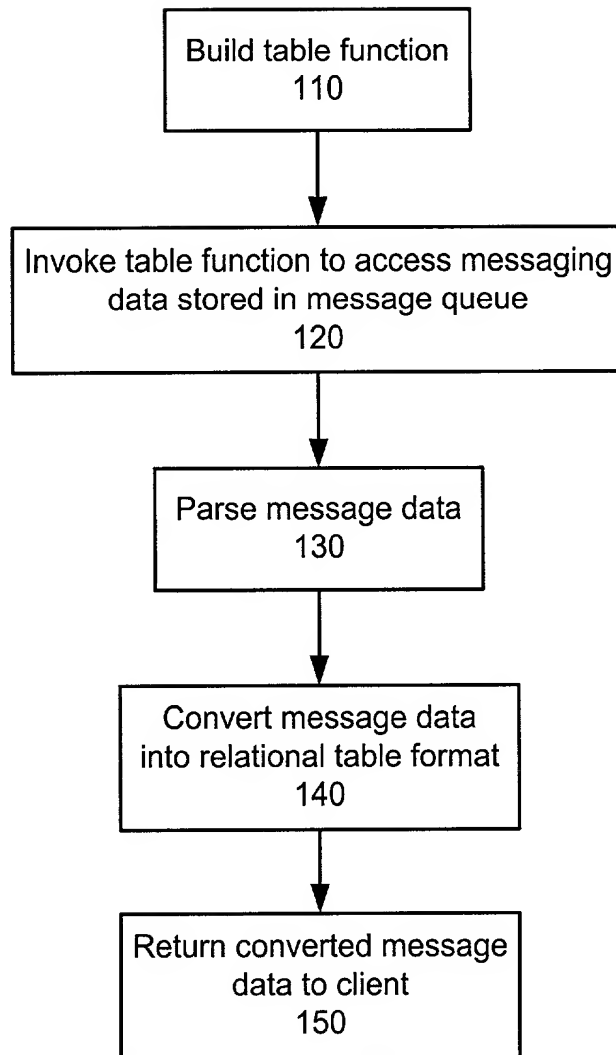


FIG. 2

UDF Type

Select whether to build a read message UDF, receive message UDF, or both.

☒ Build a receive (destructive read) message UDF
☐ Build a read message UDF
☒ Build both a receive and read message UDF

Next Finish Cancel

200 201 202 203 204 205

FIG. 3

UDF Name

Specify the name of the table UDF, and optionally type a comment to describe the function.

Receive message UDF

Name: MQRECEIVEUDF

Comment:

Read message UDF

Name: MQREADUDF

Comment:

Back Next Finish Cancel

FIG. 4

1. UDF Type	<h3>Target Database</h3> <p>Specify the DB2 database where you would like to store the user-defined table function.</p> <p>Database <input type="text" value="MQDB"/> ²²⁰</p> <p><input checked="" type="checkbox"/> Use your current user ID and password ²²¹</p> <p>User ID <input type="text"/> ²²²</p> <p>Password <input type="text"/> ²²²</p> <p><input type="button" value="Test Connection"/> ²²³</p>
2. UDF Name	
3. Target Database	
4. Source MQ	
5. Message Format	
6. Column Definition	
7. Options	
8. Summary ²²⁴	

FIG. 5

1. UDF Type	<h3>Source MQ</h3> <p><input checked="" type="radio"/> Use default specification ²³⁰</p> <p><input type="radio"/> Specify service point and policy ²³¹</p> <p>Service point name <input type="text"/></p> <p>Queue name <input type="text"/></p>
2. UDF Name	
3. Target Database	
4. Source MQ	
5. Message Format	
6. Column Definition	
7. Options	
8. Summary	

FIG. 6

1 UDF Type	<h2>Message Format</h2> <p>Specify how the column data is identified within the source message. If you have previously saved the column data format and definition in a file, enter the file name.</p> <p>Column data format</p> <p><input checked="" type="radio"/> Specify column data format — 240</p> <p><input checked="" type="radio"/> Delimited — 242</p> <p>Delimiter character <input type="text" value=" "/></p> <p><input type="radio"/> Fixed-length — 243</p> <p><input type="radio"/> Read column data format and definitions from a file — 241</p> <p>File name <input type="text" value="message.txt"/></p> <p><input type="button" value="Show Sample Content"/> — 244</p> <p><input type="button" value="Back"/> <input type="button" value="Next"/> <input type="button" value="Finish"/> <input type="button" value="Cancel"/></p>
2 UDF Name	
3 Target Database	
4 Source MQ	
5 Message Format	
6 Column Definition	
7 Options	
8 Summary	

FIG. 7

1 UDF Type	<h2>Column Definition</h2> <p>Define the columns within the MQ message. The column definition must correspond to the column data within the MQSeries message and determines the table UDF column output. Click Add or Change to add or modify a column definition.</p> <p>Columns</p> <table border="1"> <thead> <tr> <th>Name</th> <th>SQL type</th> </tr> </thead> <tbody> <tr> <td>COL1</td> <td>varchar(12)</td> </tr> <tr> <td>COL2</td> <td>decimal(8,2)</td> </tr> <tr> <td>COL3</td> <td>char(8)</td> </tr> <tr> <td>COL4</td> <td>date</td> </tr> </tbody> </table> <p><input type="button" value="Add"/> — 250</p> <p><input type="button" value="Change"/> — 251</p> <p><input type="button" value="Remove"/> — 252</p> <p><input type="button" value="Move Up"/></p> <p><input type="button" value="Move Down"/></p> <p><input type="button" value="Sample result"/> — 253</p> <p><input type="button" value="Back"/> <input type="button" value="Next"/> <input type="button" value="Finish"/> <input type="button" value="Cancel"/></p>	Name	SQL type	COL1	varchar(12)	COL2	decimal(8,2)	COL3	char(8)	COL4	date
Name		SQL type									
COL1		varchar(12)									
COL2		decimal(8,2)									
COL3		char(8)									
COL4		date									
2 UDF Name											
3 Target Database											
4 Source MQ											
5 Message Format											
6 Column Definition											
7 Options											
8 Summary											

FIG. 8

Add Column Definition [X]

Name: COL5

SQL Type: varchar

Length: 12

Unit: [v]

Precision: []

Scale: []

Column data position: 40

Column data length: 48

OK Cancel Apply Reset

Column definition added successfully.

FIG. 8A

Name	SQL type	Value
COL1	varchar(12)	tanya couch
COL2	decimal(8,2)	35.55
COL3	char(8)	San Jose
COL4	date	1992-10-27

Close

FIG. 8B

1. UDF Type	Options Specify whether to create a view of the table UDF, and whether to save the column data format and definitions to a file for the next time you create a UDF using this wizard. <input checked="" type="checkbox"/> Create a corresponding table view — 260 Receive message UDF View name for receive UDF: db2admin.recvview1 View comment for receive UDF: view of table function Read message UDF View name for read UDF: db2admin.rview1 View comment for read UDF: <input checked="" type="checkbox"/> Save the column definitions to a file — 262 Filename: coldefinitions — 263 <div>◀ Back Next ▶ Finish Cancel</div>
2. UDF Name	
3. Target Database	
4. Source MQ	
5. Message Format	
6. Column Definition	
7. Options	
8. Summary	

FIG. 9

1 UDF Type
2 UDF Name
3 Target Database
4 Source MQ
5 Message Format
6 Column Definition
7 Options
8 Summary

Summary

The table UDF options are summarized below. When you click finish the table UDF will be built. Ensure that the MQSeries Integration Functions are installed before running the UDF.

Summary of table UDF options

Name	Value
Build both a receive and read message UDF	Selected
Receive message UDF	MQRECEIVEUDF
Read message UDF	MQREADUDF
Comment	

Summary of table UDF columns

Name	SQL type
COL1	varchar(12)
COL2	decimal(8,2)
COL3	char(8)
COL4	date

271 — Show SQL

Back Finish Cancel

270 FIG. 10

SQL statements

```

CREATE FUNCTION MQRECEIVEUDF()
  RETURNS TABLE ( COL1 varchar(12),
                  COL2 decimal(8,2),
                  COL3 char(8),
                  COL4 date )
  LANGUAGE SQL
  NOT DETERMINISTIC
  EXTERNAL ACTION
  READS SQL DATA
  RETURN SELECT
    VARCHAR(DB2MQ GETCOL(T MSG,'%1'),12),
    DEC(DB2MQ GETCOL(T MSG,'%2'),8,2),
    CHAR(DB2MQ GETCOL(T MSG,'%3'),8),
    DATE(DB2MQ GETCOL(T MSG,'%4')) FROM TABLE
    (DB2MQ MQRECEIVEALL()) AS T,
  
```

Close

FIG. 10A